

1656

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/640,636A

DATE: 04/17/2001

TIME: 13:20:38

Input Set : A:\SEQUENCE LISTING 09.640,636.txt

Output Set: N:\CRF3\04172001\I640636A.raw

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MAY 01 2001

TECH CENTER 1600/2900

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3 <110> APPLICANT: Lewin, David
4   Shimkets, Richard
5   Lasky, Lawrence
6   Taillon, Bruce
7   Gold, Steven
9 <120> TITLE OF INVENTION: NOVEL HEMATOPOIETIC REGULATORY FACTORS AND METHODS OF USE THEREOF
11 <130> FILE REFERENCE: 10716/25
13 <140> CURRENT APPLICATION NUMBER: 09/640,636A
14 <141> CURRENT FILING DATE: 2000-08-17
16 <150> PRIOR APPLICATION NUMBER: 60/149,830
17 <151> PRIOR FILING DATE: 1999-08-19
19 <160> NUMBER OF SEQ ID NOS: 6
21 <170> SOFTWARE: PatentIn version 3.0
23 <210> SEQ ID NO: 1
24 <211> LENGTH: 912
25 <212> TYPE: DNA
26 <213> ORGANISM: HEMA1
28 <400> SEQUENCE: 1
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31 cgtccctgtg acactcaaga gctacgatgt ctgtgtattc aggaacactc tgaattcatt      120
33 cctctcaaac tcattaaaaa tataatggtg atattcgaga ccatttactg caacagaaaag      180
35 gaagtgatag cagtcccaaa aaatgggagt atgatttggt tggatcctga tgctccatgg      240
37 gtgaaggcta ctgttggccc aattactaac aggttcctac ctgaggacct caaacaaaaag      300
39 gaatttccac cggcaatgaa gcttctgtat agtggtgagc atgaaaagcc tctatatctt      360
41 tcatttgga gacctgagaa caagagaata tttcccttcc caattcggga gacctctaga      420
43 cactttgctg atttagctca caacagtgat aggaattttc tacgggactc cagtgaagtc      480
45 agcttgacag gcagtgatgc ctaaaagcca ctcatgagc aaagagtttc aaggaagctc      540
47 tcctcctgga gttttggcgt tctcattctt atactctatt cccgcgtagg tctgggtgat      600
49 ggatctatga gctctctttt aatattttat tataaatggt ttatttactt aacttcctag      660
51 tgaatgttca caggtgactg ctccccatc cccatttctt gatattacat ataatggcat      720
53 catatacccc ttatttgact gacaaaactac tcagattgct taacattttg tgcttcaaag      780
55 tcttatccca ctccactatg ggctgttaca gagtgcattc cgggtgtaga caaggctcct      840
57 tgtcttcagt gcccagggt gaaatacttc tttgaaaaat tttcattcat cagaraatct      900
59 gaaataaata tt                                     912
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65 <213> ORGANISM: HEMA1
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69 Met Ala Ala Gln Gly Trp Ser Met Leu Leu Leu Ala Val Leu Asn Leu
70 1          5          10          15
72 Gly Ile Phe Val Arg Pro Cys Asp Thr Gln Glu Leu Arg Cys Leu Cys
73          20          25          30
75 Ile Gln Glu His Ser Glu Phe Ile Pro Leu Lys Leu Ile Lys Asn Ile
76          35          40          45
78 Met Val Ile Phe Glu Thr Ile Tyr Cys Asn Arg Lys Glu Val Ile Ala
79          50          55          60

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81 Val Pro Lys Asn Gly Ser Met Ile Cys Leu Asp Pro Asp Ala Pro Trp
82 65 70 75 80
84 Val Lys Ala Thr Val Gly Pro Ile Thr Asn Arg Phe Leu Pro Glu Asp
85 85 90 95
87 Leu Lys Gln Lys Glu Phe Pro Pro Ala Met Lys Leu Leu Tyr Ser Val
88 100 105 110
90 Glu His Glu Lys Pro Leu Tyr Leu Ser Phe Gly Arg Pro Glu Asn Lys
91 115 120 125
93 Arg Ile Phe Pro Phe Pro Ile Arg Glu Thr Ser Arg His Phe Ala Asp
94 130 135 140
96 Leu Ala His Asn Ser Asp Arg Asn Phe Leu Arg Asp Ser Ser Glu Val
97 145 150 155 160
99 Ser Leu Thr Gly Ser Asp Ala
100 165
102 <210> SEQ ID NO: 3
103 <211> LENGTH: 667
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107 <400> SEQUENCE: 3
108 cgagggtgatc ataaactcgc ccatcgtcct gcgctacaag accccctact tcaaagcctc 60
110 cgcccgcgtg gtcattgccc ccatcccccgc ccacgagacc tgggtgggtg gctggattca 120
112 ggcgtgcaat cagatggagt tcttcaacac ctacagcgac ctgggcatgt caagctggga 180
114 actgcctgac ttgagggaag ggagagtaaa agccatcagt gactcagatg gggtagagta 240
116 cccttggtac gggaaacacca cagaaactgt gaccctgggt ggcccaccaa caagatctcc 300
118 aggttctccg tcagcataat gacaacttct accccagtgt gacatgggca gtgcctgtga 360
120 gtgacagcaa tgtgccactg ctcaacaaga tcaagagaga ccaaagtttc acgacctggc 420
122 tgggtggccat gaacaccacc acaaaggaga agatcattct gcagaccatc aagtggagga 480
124 tgagggtgga cattgaagtg gaccctcttc agctcttggg gcagcggggc cggctgggtg 540
126 gcaggactca gcaggagcag ccccggtatc tgagccgat ggaacccatc ccccctaata 600
128 cactagtga acccaatgcc caatgatgcc aggtcctcat gtggggggccc agcggggccc 660
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135 <212> TYPE: PRT
136 <213> ORGANISM: HEMA2
138 <400> SEQUENCE: 4
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141 1 5 10 15
143 Leu Gln Ser Leu Arg Pro Arg Gly His Ala Pro His Pro Pro Arg
144 20 25 30
146 Asp Leu Gly Gly Gly Leu Asp Ser Gly Val Gln Ser Asp Gly Val Leu
147 35 40 45
149 Gln His Leu Gln Arg Pro Gly His Val Lys Leu Gly Thr Ala
150 50 55 60
152 <210> SEQ ID NO: 5
153 <211> LENGTH: 208
154 <212> TYPE: PRT
155 <213> ORGANISM: HEMA2
157 <400> SEQUENCE: 5

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159 Glu Val Ile Ile Asn Ser Pro Ile Val Leu Arg Tyr Lys Thr Pro Tyr
160 1 5 10 15
162 Phe Lys Ala Ser Ala Arg Val Val Met Pro Pro Ile Pro Arg His Glu
163 20 25 30
165 Thr Trp Val Val Gly Trp Ile Gln Ala Cys Asn Gln Met Glu Phe Phe
166 35 40 45
168 Asn Thr Tyr Ser Asp Leu Gly Met Ser Ser Trp Glu Leu Pro Asp Leu
169 50 55 60
171 Arg Glu Gly Arg Val Lys Ala Ile Ser Asp Ser Asp Gly Val Ser Tyr
172 65 70 75 80
174 Pro Trp Tyr Gly Asn Thr Thr Glu Thr Val Thr Leu Val Gly Pro Thr
175 85 90 95
177 Asn Lys Ile Ser Arg Phe Ser Val Ser Met Asn Asp Asn Phe Tyr Pro
178 100 105 110
180 Ser Val Thr Trp Ala Val Pro Val Ser Asp Ser Asn Val Pro Leu Leu
181 115 120 125
183 Thr Arg Ile Lys Arg Asp Gln Ser Phe Thr Thr Trp Leu Val Ala Met
184 130 135 140
186 Asn Thr Thr Thr Lys Glu Lys Ile Ile Leu Gln Thr Ile Lys Trp Arg
187 145 150 155 160
189 Met Arg Val Asp Ile Glu Val Asp Pro Leu Gln Leu Leu Gly Gln Arg
190 165 170 175
192 Ala Arg Leu Val Gly Arg Thr Gln Gln Glu Gln Pro Arg Ile Leu Ser
193 180 185 190
195 Arg Met Glu Pro Ile Pro Pro Asn Ala Leu Val Lys Pro Asn Ala Gln
196 195 200 205
198 <210> SEQ ID NO: 6
199 <211> LENGTH: 67
200 <212> TYPE: PRT
201 <213> ORGANISM: HEMA1
203 <400> SEQUENCE: 6
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206 1 5 10 15
208 Pro Leu Tyr Leu Ser Phe Gly Arg Pro Glu Asn Lys Arg Ile Phe Pro
209 20 25 30
211 Phe Pro Ile Arg Glu Thr Ser Arg His Phe Ala Asp Leu Ala His Asn
212 35 40 45
214 Ser Asp Arg Asn Phe Leu Arg Asp Ser Ser Glu Val Ser Leu Thr Gly
215 50 55 60
217 Ser Asp Ala
218 65

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